

SEQUENCE LISTING

<110> Conklin, Darrell C.
Haldeman, Betty A.

<120> MAMMALIAN CYTOKINE-LIKE POLYPEPTIDE-10

<130> 97-72

<150> 09/199,586
<151> 1998-11-25

<150> 60/066,597
<151> 1997-11-26

<160> 43

<170> .FastSEQ for Windows Version 3.0

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<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (45)...(572)

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Ser Leu Ala Phe Ser Leu Leu Ser Ala Ala Phe Tyr Leu Leu Trp Thr
5 10 15 20

cct tcc act gga ctg aag aca ctc aat ttg gga agc tgt gtg atc gcc 152
Pro Ser Thr Gly Leu Lys Thr Leu Asn Leu Gly Ser Cys Val Ile Ala
25 30 35

aca aac ctt cag gaa ata cga aat gga ttt tct gac ata cgg ggc agt 200

Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp Ile Arg Gly Ser			
40	45	50	
gtg caa gcc aaa gat gga aac att gac atc aga atc tta agg agg agg act			248
Val Gln Ala Lys Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg Arg Thr			
55	60	65	
gag tct ttg caa gac aca aag cct gcg aat cga tgc tgc ctc ctg cgc			296
Glu Ser Leu Gln Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu Leu Arg			
70	75	80	
cat ttg cta aga ctc tat ctg gac agg gta ttt aaa aac tac cag acc			344
His Leu Leu Arg Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr			
85	90	95	100
cct gac cat tat act ctc cg ^g aag atc agc agc ctc gcc aat tcc ttt			392
Pro Asp His Tyr Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe			
105	110	115	
ctt acc atc aag aag gac ctc cg ^g ctc tgt cat gcc cac atg aca tgc			440
Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys His Ala His Met Thr Cys			
120	125	130	
cat tgt ggg gag gaa gca atg aag aaa tac agc cag att ctg agt cac			488
His Cys Gly Glu Glu Ala Met Lys Lys Tyr Ser Gln Ile Leu Ser His			
135	140	145	
ttt gaa aag ctg gaa cct cag gca gca gtt gtg aag gct ttg ggg gaa			536
Phe Glu Lys Leu Glu Pro Gln Ala Ala Val Val Lys Ala Leu Gly Glu			
150	155	160	
cta gac att ctt ctg caa tgg atg gag gag aca gaa taggaggaaa			582
Leu Asp Ile Leu Leu Gln Trp Met Glu Glu Thr Glu			
165	170	175	
gtgatgctgc tgctaagaat attcgaggc aagagctcca gtctcaata cctgcagagg			642
aggcatgacc ccaaaccacc atctcttac tgtactagtc ttgtgttgt cacagtgtat			702
cttatattatg cattacttgc ttcccttgcattttgtcttt atgcattcccc aatcttaatt			762
gagaccatac ttgtataaga tttttgtaat atctttctgc tattggatat atttattatgt			822
taatatattt atttattttt tgctattaat gtatattaatt ttttacttgg gcatgaaact			882
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<211> 176
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 <213> Homo sapiens

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Met	Lys	Ala	Ser	Ser	Leu	Ala	Phe	Ser	Leu	Leu	Ser	Ala	Ala	Phe	Tyr
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Leu	Leu	Trp	Thr	Pro	Ser	Thr	Gly	Leu	Lys	Thr	Leu	Asn	Leu	Gly	Ser
															30
20								25							
Cys	Val	Ile	Ala	Thr	Asn	Leu	Gln	Glu	Ile	Arg	Asn	Gly	Phe	Ser	Asp
															45
35							40								
Ile	Arg	Gly	Ser	Val	Gln	Ala	Lys	Asp	Gly	Asn	Ile	Asp	Ile	Arg	Ile
															60
50							55								
Leu	Arg	Arg	Thr	Glu	Ser	Leu	Gln	Asp	Thr	Lys	Pro	Ala	Asn	Arg	Cys
							70								80
65								75							
Cys	Leu	Leu	Arg	His	Leu	Leu	Arg	Leu	Tyr	Leu	Asp	Arg	Val	Phe	Lys
															95
							85			90					
Asn	Tyr	Gln	Thr	Pro	Asp	His	Tyr	Thr	Leu	Arg	Lys	Ile	Ser	Ser	Leu
															110
							100		105						
Ala	Asn	Ser	Phe	Leu	Thr	Ile	Lys	Lys	Asp	Leu	Arg	Leu	Cys	His	Ala
							115		120						125
His	Met	Thr	Cys	His	Cys	Gly	Glu	Glu	Ala	Met	Lys	Lys	Tyr	Ser	Gln
							130		135						140
Ile	Leu	Ser	His	Phe	Glu	Lys	Leu	Glu	Pro	Gln	Ala	Ala	Val	Val	Lys
							145		150						160
										155					
Ala	Leu	Gly	Glu	Leu	Asp	Ile	Leu	Leu	Gln	Trp	Met	Glu	Glu	Thr	Glu
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<220>
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Ser Leu Ala Phe Ser Leu Leu Ser Ala Ala Phe Tyr Leu Leu Trp Thr
 5 10 15 20
 cct tcc act gga ctg aag aca ctc aat ttg gga agc tgt gtg atc gcc 152
 Pro Ser Thr Gly Leu Lys Thr Leu Asn Leu Gly Ser Cys Val Ile Ala
 25 30 35
 aca aac ctt cag gaa ata cga aat gga ttt tct gac ata cgg ggc agt 200
 Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp Ile Arg Gly Ser
 40 45 50
 gtg caa gcc aaa gat gga aac att gac atc aga atc tta agg agg act 248
 Val Gln Ala Lys Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg Arg Thr
 55 60 65
 gag tct ttg caa gac aca aag cct gcg aat cga tgc tgc ctc ctg cgc 296
 Glu Ser Leu Gln Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu Leu Arg
 70 75 80
 cat ttg cta aga ctc tat ctg gac agg gta ttt aaa aac tac cag acc 344
 His Leu Leu Arg Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr
 85 90 95 100
 cct gac cat tat act ctc cg^g aag atc agc agc ctc gcc aat tcc ttt 392
 Pro Asp His Tyr Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe
 105 110 115
 ctt acc atc aag aag gac ctc cg^g ctc tgt ctg gaa cct cag gca gca 440
 Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys Leu Glu Pro Gln Ala Ala
 120 125 130
 gtt gtg aag gct ttg ggg gaa cta gac att ctt ctg caa tgg atg gag 488
 Val Val Lys Ala Leu Gly Glu Leu Asp Ile Leu Leu Gln Trp Met Glu
 135 140 145
 gag aca gaa taggagaaaa gtgatgctgc tgctaagaat attcgaggtc 537
 Glu Thr Glu
 150
 aagagctcca gtcttcaata cctgcagagg aggcattgacc ccaaaccacc atctcttac 597
 tgtactagtc ttgtgctgg cacagtgtat cttatttatg cattacttgc ttcccttgc 657
 gattgtcttt atgcattcccc aatcttaatt gagaccatac ttgtataaga tttttgtaat 717
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gtatttaatt ttttac

793

<210> 4
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 4

Met	Lys	Ala	Ser	Ser	Leu	Ala	Phe	Ser	Leu	Leu	Ser	Ala	Ala	Phe	Tyr
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Leu	Leu	Trp	Thr	Pro	Ser	Thr	Gly	Leu	Lys	Thr	Leu	Asn	Leu	Gly	Ser
									20			25			30
Cys	Val	Ile	Ala	Thr	Asn	Leu	Gln	Glu	Ile	Arg	Asn	Gly	Phe	Ser	Asp
							35			40			45		
Ile	Arg	Gly	Ser	Val	Gln	Ala	Lys	Asp	Gly	Asn	Ile	Asp	Ile	Arg	Ile
							50			55			60		
Leu	Arg	Arg	Thr	Glu	Ser	Leu	Gln	Asp	Thr	Lys	Pro	Ala	Asn	Arg	Cys
							65			70			75		80
Cys	Leu	Leu	Arg	His	Leu	Leu	Arg	Leu	Tyr	Leu	Asp	Arg	Val	Phe	Lys
							85			90			95		
Asn	Tyr	Gln	Thr	Pro	Asp	His	Tyr	Thr	Leu	Arg	Lys	Ile	Ser	Ser	Leu
							100			105			110		
Ala	Asn	Ser	Phe	Leu	Thr	Ile	Lys	Lys	Asp	Leu	Arg	Leu	Cys	Leu	Glu
							115			120			125		
Pro	Gln	Ala	Ala	Val	Val	Lys	Ala	Leu	Gly	Glu	Leu	Asp	Ile	Leu	Leu
							130			135			140		
Gln	Trp	Met	Glu	Glu	Thr	Glu									
							145			150					

<210> 5
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 <213> Homo sapiens

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agacactcaa	tttgggaagc	tgtgtatcg	ccacaaacct	ttagaaata	cgaaatggat	180
tttctgagat	acggggcagt	gtgcaagcca	aagatggaaa	cattgacatc	agaatcttaa	240
ggaggactga	gtc					253

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<212> DNA		
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cacagcttcc caaattgagt gtcttcagtc cagtggagg agtcc	45	
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ttgctaagac tctatcttggc cagggtattt aaaaactacc agacccttga ccattatact	180	
ctccggaaaga tcagcagcct cgccatttcc tttcttacca tcaagaagga cctccggctc	240	
tgtcatgccc acatgacatg ccattgtggg gaggaagcaa tgaagaaata cagccagatt	300	
ctgagtcaact ttgaaaagct ggaacctcag gcagcagttt tgaaggcttt gggggacta	360	
gacattcttc tgcaatggat ggaggagaca gaataggagg aaagtgtatgc tgctgctaag	420	

aatattcgag gtcaagagct ccagtcttca atacctgcag aggaggcatg accccaaacc	480
accatctctt tactgtacta gtcttgct ggtcacagt tatcttattt atgcattact	540
tgcttccttgcatgattgtc ttatgcattt cccaatcttattt gatgagacca tacttgtata	600
agattttgtt aatatcttc tgctatttga tatatttattt agttaatata tttatttattt	660
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gattatattt ataacctgac tagagca	747

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<212> DNA

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<400> 11

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ttgctaagac tctatcttga cagggtattt aaaaactacc agacccttga ccattatact	180
ctccggaga tcagcagcct cgccaattcc tttcttacca tcaagaagga cctccggctc	240
tgtctggaac ctcaggcagc agttgtgaag gctttggggg aactagacat tcttctgcaa	300
tggatggagg agacagaata ggaggaaagt gatgctgtc ctaagaatat tcgaggtcaa	360
gagctccagt cttcaataacc tgcaaggag gcatgacccc aaaccaccaat ctcttactg	420
tactagtctt gtgctggta cagtgtatct tatattatgca ttacttgctt ctttgcattt	480
ttgtctttat gcatccccaa tcttaatttga gaccatactt gtataagatt ttgtatattat	540
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<210> 12

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<212> PRT

<213> Homo sapiens

<400> 12

Leu Lys Thr Leu Asn Leu Gly Ser Cys Val Ile Ala Thr Asn Leu Gln

1	5	10	15
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Glu Ile Arg Asn Gly Phe Ser Asp Ile Arg Gly Ser Val Gln Ala Lys

20	25	30
----	----	----

Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg Arg Thr Glu Ser Leu Gln

35	40	45
----	----	----

Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu Leu Arg His Leu Leu Arg

50	55	60
----	----	----

Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr Pro Asp His Tyr

65	70	75	80
----	----	----	----

Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe Leu Thr Ile Lys

85	90	95
----	----	----

Lys Asp Leu Arg Leu Cys His Ala His Met Thr Cys His Cys Gly Glu
 100 105 110
 Glu Ala Met Lys Lys Tyr Ser Gln Ile Leu Ser His Phe Glu Lys Leu
 115 120 125
 Glu Pro Gln Ala Ala Val Val Lys Ala Leu Gly Glu Leu Asp Ile Leu
 130 135 140
 Leu Gln Trp Met Glu Glu Thr Glu
 145 150

<210> 13
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 <212> PRT
 <213> Homo sapiens

<400> 13

Leu Lys Thr Leu Asn Leu Gly Ser Cys Val Ile Ala Thr Asn Leu Gln
 1 5 10 15
 Glu Ile Arg Asn Gly Phe Ser Asp Ile Arg Gly Ser Val Gln Ala Lys
 20 25 30
 Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg Arg Thr Glu Ser Leu Gln
 35 40 45
 Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu Leu Arg His Leu Leu Arg
 50 55 60
 Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr Pro Asp His Tyr
 65 70 75 80
 Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe Leu Thr Ile Lys
 85 90 95
 Lys Asp Leu Arg Leu Cys Leu Glu Pro Gln Ala Ala Val Val Lys Ala
 100 105 110
 Leu Gly Glu Leu Asp Ile Leu Leu Gln Trp Met Glu Glu Thr Glu
 115 120 125

<210> 14
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 <213> Homo sapiens

<400> 14

Ile Ala Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp Ile
 1 5 10 15

<210> 15
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<212> PRT

<213> Homo sapiens

<400> 15

Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr Pro Asp His Tyr Thr
 1 5 10 15

<210> 16

<211> 15

<212> PRT

<213> Homo sapiens

<400> 16

Leu Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys
 1 5 10 15

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<211> 15

<212> PRT

<213> Homo sapiens

<400> 17

Val Val Lys Ala Leu Gly Glu Leu Asp Ile Leu Leu Gln Trp Met
 1 5 10 15

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<211> 824

<212> DNA

<213> Mus musculus

<220>

<221> CDS

<222> (71)...(598)

<400> 18

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 Met Lys Gly Phe Gly Leu Ala Phe Gly Leu Phe Ser Ala
 1 5 10

gtg ggt ttt ctt ctc tgg act cct tta act ggg ctc aag acc ctc cat 157
 Val Gly Phe Leu Leu Trp Thr Pro Leu Thr Gly Leu Lys Thr Leu His
 15 20 25

ttg gga agc tgt gtg att act gca aac cta cag gca ata caa aag gaa	205
Leu Gly Ser Cys Val Ile Thr Ala Asn Leu Gln Ala Ile Gln Lys Glu	
30 35 40 45	
ttt tct gag att cg ^g gat agt gtg caa gct gaa gat aca aat att gac	253
Phe Ser Glu Ile Arg Asp Ser Val Gln Ala Glu Asp Thr Asn Ile Asp	
50 55 60	
atc aga att tta agg acg act gag tct ttg aaa gac ata aag tct ttg	301
Ile Arg Ile Leu Arg Thr Thr Glu Ser Leu Lys Asp Ile Lys Ser Leu	
65 70 75	
gat agg tgc tgc ttc ctt cgt cat cta gtg aga ttc tat ctg gac agg	349
Asp Arg Cys Cys Phe Leu Arg His Leu Val Arg Phe Tyr Leu Asp Arg	
80 85 90	
gta ttc aaa gtc tac cag acc cct gac cac cat acc ctg aga aag atc	397
Val Phe Lys Val Tyr Gln Thr Pro Asp His His Thr Leu Arg Lys Ile	
95 100 105	
agc agc ctc gcc aac tcc ttt ctt atc atc aag aag gac ctc tca gtc	445
Ser Ser Leu Ala Asn Ser Phe Leu Ile Ile Lys Lys Asp Leu Ser Val	
110 115 120 125	
tgt cat tct cac atg gca tgt cat tgt ggg gaa gaa gca atg gag aaa	493
Cys His Ser His Met Ala Cys His Cys Gly Glu Glu Ala Met Glu Lys	
130 135 140	
tac aac caa att ctg agt cac ttc ata gag ttg gaa ctt cag gca gcg	541
Tyr Asn Gln Ile Leu Ser His Phe Ile Glu Leu Glu Leu Gln Ala Ala	
145 150 155	
gtg gta aag gct ttg gga gaa cta ggc att ctt ctg aga tgg atg gag	589
Val Val Lys Ala Leu Gly Glu Leu Gly Ile Leu Leu Arg Trp Met Glu	
160 165 170	
gag atg cta tagatgaaag tggagaggct gctgagaaca ctcctgtcca	638
Glu Met Leu	
175	
agaatctcag acctcagcac catgaagaca tggccccagg tgctggcatt tctactcaag	698

agttccagtc ctcagcacca cgaagatggc ctcaaaccac caccccttg tgcataact	758
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tgtgtc	824

<210> 19
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 <212> PRT
 <213> Mus musculus

<400> 19

Met Lys Gly Phe Gly Leu Ala Phe Gly Leu Phe Ser Ala Val Gly Phe			
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20	25	30	
Cys Val Ile Thr Ala Asn Leu Gln Ala Ile Gln Lys Glu Phe Ser Glu			
35	40	45	
Ile Arg Asp Ser Val Gln Ala Glu Asp Thr Asn Ile Asp Ile Arg Ile			
50	55	60	
Leu Arg Thr Thr Glu Ser Leu Lys Asp Ile Lys Ser Leu Asp Arg Cys			
65	70	75	80
Cys Phe Leu Arg His Leu Val Arg Phe Tyr Leu Asp Arg Val Phe Lys			
85	90	95	
Val Tyr Gln Thr Pro Asp His His Thr Leu Arg Lys Ile Ser Ser Leu			
100	105	110	
Ala Asn Ser Phe Leu Ile Ile Lys Lys Asp Leu Ser Val Cys His Ser			
115	120	125	
His Met Ala Cys His Cys Gly Glu Glu Ala Met Glu Lys Tyr Asn Gln			
130	135	140	
Ile Leu Ser His Phe Ile Glu Leu Glu Leu Gln Ala Ala Val Val Lys			
145	150	155	160
Ala Leu Gly Glu Leu Gly Ile Leu Leu Arg Trp Met Glu Glu Met Leu			
165	170	175	

<210> 20
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 <213> Mus musculus

<400> 20

Leu Lys Thr Leu His Leu Gly Ser Cys Val Ile Thr Ala Asn Leu Gln			
1	5	10	15
Ala Ile Gln Lys Glu Phe Ser Glu Ile Arg Asp Ser Val Gln Ala Glu			
20	25	30	

Asp Thr Asn Ile Asp Ile Arg Ile Leu Arg Thr Thr Glu Ser Leu Lys
 35 40 45
 Asp Ile Lys Ser Leu Asp Arg Cys Cys Phe Leu Arg His Leu Val Arg
 50 55 60
 Phe Tyr Leu Asp Arg Val Phe Lys Val Tyr Gln Thr Pro Asp His His
 65 70 75 80
 Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe Leu Ile Ile Lys
 85 90 95
 Lys Asp Leu Ser Val Cys His Ser His Met Ala Cys His Cys Gly Glu
 100 105 110
 Glu Ala Met Glu Lys Tyr Asn Gln Ile Leu Ser His Phe Ile Glu Leu
 115 120 125
 Glu Leu Gln Ala Ala Val Val Lys Ala Leu Gly Glu Leu Gly Ile Leu
 130 135 140
 Leu Arg Trp Met Glu Glu Met Leu
 145 150

<210> 21

<211> 16

<212> PRT

<213> Mus musculus

<400> 21

Ile Thr Ala Asn Leu Gln Ala Ile Gln Lys Glu Phe Ser Glu Ile Arg
 1 5 10 15

<210> 22

<211> 15

<212> PRT

<213> Mus musculus

<400> 22

Leu Asp Arg Val Phe Lys Val Tyr Gln Thr Pro Asp His His Thr
 1 5 10 15

<210> 23

<211> 15

<212> PRT

<213> Mus musculus

<400> 23

Leu Ala Asn Ser Phe Leu Ile Ile Lys Lys Asp Leu Ser Val Cys
 1 5 10 15

<210> 24
<211> 15
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<213> Mus musculus

<400> 24
Val Val Lys Ala Leu Gly Glu Leu Gly Ile Leu Leu Arg Trp Met
1 5 10 15

<210> 25
<211> 144
<212> PRT
<213> Mus musculus

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Cys Val Ile Thr Ala Asn Leu Gln Ala Ile Gln Lys Glu Phe Ser Glu
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20 25 30
Leu Arg Thr Thr Glu Ser Leu Lys Asp Ile Lys Ser Leu Asp Arg Cys
35 40 45
Cys Phe Leu Arg His Leu Val Arg Phe Tyr Leu Asp Arg Val Phe Lys
50 55 60
Val Tyr Gln Thr Pro Asp His His Thr Leu Arg Lys Ile Ser Ser Leu
65 70 75 80
Ala Asn Ser Phe Leu Ile Ile Lys Lys Asp Leu Ser Val Cys His Ser
85 90 95
His Met Ala Cys His Cys Gly Glu Glu Ala Met Glu Lys Tyr Asn Gln
100 105 110
Ile Leu Ser His Phe Ile Glu Leu Glu Leu Gln Ala Ala Val Val Lys
115 120 125
Ala Leu Gly Glu Leu Gly Ile Leu Leu Arg Trp Met Glu Glu Met Leu
130 135 140

<210> 26
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<213> Homo sapiens

<400> 26
Cys Val Ile Ala Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp
1 5 10 15

Ile Arg Gly Ser Val Gln Ala Lys Asp Gly Asn Ile Asp Ile Arg Ile
 20 25 30
 Leu Arg Arg Thr Glu Ser Leu Gln Asp Thr Lys Pro Ala Asn Arg Cys
 35 40 45
 Cys Leu Leu Arg His Leu Leu Arg Leu Tyr Leu Asp Arg Val Phe Lys
 50 55 60
 Asn Tyr Gln Thr Pro Asp His Tyr Thr Leu Arg Lys Ile Ser Ser Leu
 65 70 75 80
 Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys His Ala
 85 90 95
 His Met Thr Cys His Cys Gly Glu Glu Ala Met Lys Lys Tyr Ser Gln
 100 105 110
 Ile Leu Ser His Phe Glu Lys Leu Glu Pro Gln Ala Ala Val Val Lys
 115 120 125
 Ala Leu Gly Glu Leu Asp Ile Leu Leu Gln Trp Met Glu Glu Thr Glu
 130 135 140

<210> 27

<211> 38

<212> PRT

<213> Homo sapiens

<400> 27

Cys Gly Glu Glu Ala Met Lys Lys Tyr Ser Gln Ile Leu Ser His Phe
 1 5 10 15

Glu Lys Leu Glu Pro Gln Ala Ala Val Val Lys Ala Leu Gly Glu Leu
 20 25 30

Asp Ile Leu Leu Gln Trp
 35

<210> 28

<211> 71

<212> PRT

<213> Homo sapiens

<400> 28

Ile Ala Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp Ile Arg
 1 5 10 15

Gly Ser Val Gln Ala Lys Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg
 20 25 30

Arg Thr Glu Ser Leu Gln Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu
 35 40 45

Leu Arg His Leu Leu Arg Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr
 50 55 60

Gln Thr Pro Asp His Tyr Thr
 65 70

<210> 29
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 29
 Ile Ala Thr Asn Leu Gln Glu Ile Arg Asn Gly Phe Ser Asp Ile Arg
 1 5 10 15
 Gly Ser Val Gln Ala Lys Asp Gly Asn Ile Asp Ile Arg Ile Leu Arg
 20 25 30
 Arg Thr Glu Ser Leu Gln Asp Thr Lys Pro Ala Asn Arg Cys Cys Leu
 35 40 45
 Leu Arg His Leu Leu Arg Leu Tyr Leu Asp Arg Val Phe Lys Asn Tyr
 50 55 60
 Gln Thr Pro Asp His Tyr Thr Leu Arg Lys Ile Ser Ser Leu Ala Asn
 65 70 75 80
 Ser Phe Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys
 85 90

<210> 30
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 30
 Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr Pro Asp His Tyr Thr Leu
 1 5 10 15
 Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp
 20 25 30
 Leu Arg Leu Cys His Ala His Met Thr Cys His Cys Gly Glu Glu Ala
 35 40 45
 Met Lys Lys Tyr Ser Gln Ile Leu Ser His Phe Glu Lys Leu Glu Pro
 50 55 60
 Gln Ala Ala Val Val Lys Ala Leu Gly Glu Leu Asp Ile Leu Leu Gln
 65 70 75 80
 Trp Met

<210> 31

<211> 36
 <212> PRT
 <213> Homo sapiens

<400> 31
 Leu Asp Arg Val Phe Lys Asn Tyr Gln Thr Pro Asp His Tyr Thr Leu
 1 5 10 15
 Arg Lys Ile Ser Ser Leu Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp
 20 25 30
 Leu Arg Leu Cys
 35

<210> 32
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 32
 Leu Ala Asn Ser Phe Leu Thr Ile Lys Lys Asp Leu Arg Leu Cys His
 1 5 10 15
 Ala His Met Thr Cys His Cys Gly Glu Glu Ala Met Lys Lys Tyr Ser
 20 25 30
 Gln Ile Leu Ser His Phe Glu Lys Leu Glu Pro Gln Ala Ala Val Val
 35 40 45
 Lys Ala Leu Gly Glu Leu Asp Ile Leu Leu Gln Trp Met
 50 55 60

<210> 33
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<220>
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 Met Lys Gly Phe Gly Leu Ala Phe Gly Leu Phe Ser Ala
 1 5 10
 gtg ggt ttt ctt ctc tgg act cct tta act ggg ctc aag acc ctc cat 157

Val	Gly	Phe	Leu	Leu	Trp	Thr	Pro	Leu	Thr	Gly	Leu	Lys	Thr	Leu	His	
15						20						25				
ttg	gga	agc	tgt	gtg	att	act	gca	aac	cta	cag	gca	ata	caa	aag	gaa	205
Leu	Gly	Ser	Cys	Val	Ile	Thr	Ala	Asn	Leu	Gln	Ala	Ile	Gln	Lys	Glu	
30							35					40			45	
ttt	tct	gag	att	cgg	gat	agt	gtg	tct	ttg	gat	agg	tgc	tgc	ttc	ctt	253
Phe	Ser	Glu	Ile	Arg	Asp	Ser	Val	Ser	Leu	Asp	Arg	Cys	Cys	Phe	Leu	
50							55					60				
cgt	cat	cta	gtg	aga	ttc	tat	ctg	gac	agg	gta	ttc	aaa	gtc	tac	cag	301
Arg	His	Leu	Val	Arg	Phe	Tyr	Leu	Asp	Arg	Val	Phe	Lys	Val	Tyr	Gln	
65							70					75				
acc	cct	gac	cac	cat	acc	ctg	aga	aag	atc	agc	agc	ctc	gcc	aac	tcc	349
Thr	Pro	Asp	His	His	Thr	Leu	Arg	Lys	Ile	Ser	Ser	Leu	Ala	Asn	Ser	
80							85					90				
ttt	ctt	atc	atc	aag	aag	gac	ctc	tca	gtc	tgt	cat	tct	cac	atg	gca	397
Phe	Leu	Ile	Ile	Lys	Lys	Asp	Leu	Ser	Val	Cys	His	Ser	His	Met	Ala	
95							100					105				
tgt	cat	tgt	ggg	gaa	gaa	gca	atg	gag	aaa	tac	aac	caa	att	ctg	agt	445
Cys	His	Cys	Gly	Glu	Glu	Ala	Met	Glu	Lys	Tyr	Asn	Gln	Ile	Leu	Ser	
110							115				120		125			
cac	ttc	ata	gag	ttg	gaa	ctt	cag	gca	gcg	gtg	gta	aag	gct	ttg	gga	493
His	Phe	Ile	Glu	Leu	Glu	Leu	Gln	Ala	Ala	Val	Val	Lys	Ala	Leu	Gly	
130							135					140				
gaa	cta	ggc	att	ctt	ctg	aga	tgg	atg	gag	gag	atg	cta	tagatgaaag			542
Glu	Leu	Gly	Ile	Leu	Leu	Arg	Trp	Met	Glu	Glu	Met	Leu				
145							150									
tggataggct	gctgagaaca	ctcctgtcca	agaatctcag	acctcagcac	catgaagaca											602
tggcccccagg	tgctggcatt	tctactcaag	agttccagtc	ctcagcacca	cgaagatggc											662
ctcaaaccac	caccctttg	tgtatataact	tagtgcgtac	tatgtgtata	ttatttctac											722
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<210> 34

<211> 154

<212> PRT

<213> Mus musculus

<400> 34

Met	Lys	Gly	Phe	Gly	Leu	Ala	Phe	Gly	Leu	Phe	Ser	Ala	Val	Gly	Phe
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Leu	Leu	Trp	Thr	Pro	Leu	Thr	Gly	Leu	Lys	Thr	Leu	His	Leu	Gly	Ser
															30
Cys	Val	Ile	Thr	Ala	Asn	Leu	Gln	Ala	Ile	Gln	Lys	Glu	Phe	Ser	Glu
															45
Ile	Arg	Asp	Ser	Val	Ser	Leu	Asp	Arg	Cys	Cys	Phe	Leu	Arg	His	Leu
															50
Val	Arg	Phe	Tyr	Leu	Asp	Arg	Val	Phe	Lys	Val	Tyr	Gln	Thr	Pro	Asp
															60
65															80
His	His	Thr	Leu	Arg	Lys	Ile	Ser	Ser	Leu	Ala	Asn	Ser	Phe	Leu	Ile
															95
Ile	Lys	Lys	Asp	Leu	Ser	Val	Cys	His	Ser	His	Met	Ala	Cys	His	Cys
															100
100															110
Gly	Glu	Ala	Met	Glu	Lys	Tyr	Asn	Gln	Ile	Leu	Ser	His	Phe	Ile	
															115
115															125
Glu	Leu	Glu	Leu	Gln	Ala	Ala	Val	Val	Lys	Ala	Leu	Gly	Glu	Leu	Gly
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130															140
Ile	Leu	Leu	Arg	Trp	Met	Glu	Glu	Met	Leu						
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145															150

<210> 35

<211> 130

<212> PRT

<213> Mus musculus

<400> 35

Leu	Lys	Thr	Leu	His	Leu	Gly	Ser	Cys	Val	Ile	Thr	Ala	Asn	Leu	Gln
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Ala	Ile	Gln	Lys	Glu	Phe	Ser	Glu	Ile	Arg	Asp	Ser	Val	Ser	Leu	Asp
															20
20															30
Arg	Cys	Cys	Phe	Leu	Arg	His	Leu	Val	Arg	Phe	Tyr	Leu	Asp	Arg	Val
															35
35															45
Phe	Lys	Val	Tyr	Gln	Thr	Pro	Asp	His	His	Thr	Leu	Arg	Lys	Ile	Ser
															50
50															60
Ser	Leu	Ala	Asn	Ser	Phe	Leu	Ile	Ile	Lys	Lys	Asp	Leu	Ser	Val	Cys
															65
65															80
His	Ser	His	Met	Ala	Cys	His	Cys	Gly	Glu	Glu	Ala	Met	Glu	Lys	Tyr

85	90	95
Asn Gln Ile Leu Ser His Phe Ile Glu Leu Glu Leu Gln Ala Ala Val		
100	105	110
Val Lys Ala Leu Gly Glu Leu Gly Ile Leu Leu Arg Trp Met Glu Glu		
115	120	125
Met Leu		
130		

<210> 36
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 <213> Homo sapiens

<400> 36	
agattctatc tggacagggt attcaaa	27

<210> 37
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<400> 37	
gcgaggctga tctttct	17

<210> 38
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<400> 38	
tggcgaggct gctgatctt ctcag	25

<210> 39
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<210> 40
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<400> 40
catcagaatt ttaaggacga ctgagt 26

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<400> 41
ggtgttcagg ggtctggtag acttt 25

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<400> 42
ggtgcatatt cctggtggct aga 23

<210> 43
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<212> DNA
<213> Mus musculus

<400> 43
attgcagtgt aaggaaatac agaga 25